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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/747,070	12/22/2000	Thomas Matthew McCann	1322/28/3	1631

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EXAMINER

JAGANNATHAN, MELANIE

ART UNIT	PAPER NUMBER
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2666

DATE MAILED: 06/30/2004

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/747,070

Applicant(s)

MCCANN ET AL.

Examiner

Melanie Jagannathan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3,6-8.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-12,14 are rejected under 35 U.S.C. 102(e) as being anticipated by Irten et al. US 6,308,075.

Regarding claims 1-2,6-12,14, the claimed method for routing message to a short message service center comprising receiving a message having a signaling connection control part and mobile application part, the mobile application part having a mobile identification number is disclosed by a plurality of message centers (Figure 1, elements 10a-10d) interconnected with a SS7 network (element 12) with message centers route short messages between one another by the use of point code/subsystem number and mobile identification numbers from messages. See column 1, column 2, and lines 40-67. The claimed determining an entity type for the message based on signaling connection control part and in response to determining that entity type indicates message is destined for SMSC, performing a lookup in an address translation database using the MIN from mobile application part of message to locate address for SMSC and routing message is disclosed by when short message is received at processing system (Figure 3a, step 20a), a determination is made if destination address is home to local MC (element 10) i.e. if phone number of handset matches a specific profile (Figure 3a,

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step 20c) in local subscriber database (element 14c) and message is forwarded to home MC of destination.

Regarding claim 3, the claimed lookup in an address translation database includes performing a lookup in database indexed by ranges of mobile identification numbers is disclosed by global title translation for MIN-to-MC translation. See column 3, lines 36-39.

Regarding claims 4-5,9-12,14, performing a lookup in a first database indexed by single of mobile identification numbers using the MIN extracted from MAP portion of message and in response to failing to locate the address in first database, performing a lookup in a second database using an entity address extracted from SCCP of message is disclosed by determination made if destination address is home to local MC (element 10) i.e. if phone number of handset matches a specific profile (Figure 3a, step 20c) in local subscriber database (element 14c) and message is forwarded to home MC of destination and if point code/sub-system number is in MC route table (element 14d), short message is routed using PC/SSN or global title translation is attempted for routing using MIN-to-MC translation. Routing is done by first trying one routing technique and then if the other is one is not achievable. See column 3, lines 9-44.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Irten et al. US 6,308,075. Irten et al. discloses all of the limitations except for first entry in entity type table includes subsystem number value of 8 to an SMSC entity type. At the time the invention was made it would have been obvious to a person of ordinary skill in the art to modify of point code/sub-system number lookup in table in message center system Irten et al. with SSN value of 8 mapping to SMSC. One of ordinary skill in the art would be motivated to do this for routing of short message to message center in system with a plurality of message centers.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ross et al. US 6,263,212 discloses a short message service center with utilizes both table routing method and global title translation method

Price et al. US 6,138,017 discloses cellular communication system with redundant lookups in HLRs.

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Kulkarni et al. US 6,138,016 disclose distributing location tracking functionality in wireless telephone systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Jagannathan whose telephone number is 703-305-8078. The examiner can normally be reached on Monday-Friday from 8:00 a.m.-4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 703-308-5463. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melanie Jagannathan
Patent Examiner
AU 2666

MJ

me Dwoz
FRANK DWORZ